TI Generation of single-stranded T-DNA molecules during the initial stages of T-DNA transfer from Agrobacterium tumefaciens to plant cells.

L1 ANSWER 8 OF 9 AGRICOLA
TI A plant cell factor induces Agrobacterium tumefaciens vir gene expression.

L1 ANSWER 9 OF 9 AGRICOLA
TI Nopaline synthase: transcript mapping and DNA sequence Agrobacterium tumefaciens.

=> d 7 so

L1 ANSWER 7 OF 9 AGRICOLA
SO Nature, Aug 21/27, 1986. Vol. 322, No. 6081. p. 706-712 ill
Publisher: Neptune, N.J. : Macmillan Journals.
CODEN: NATUAS; ISSN: 0028-0836

=> d 7 ab

L1 ANSWER 7 OF 9 AGRICOLA

=> d 8 so

L1 ANSWER 8 OF 9 AGRICOLA
SO Proceedings of the National Academy of Sciences of the United States of America, Jan 1986. Vol. 83, No. 2. p. 379-383
Publisher: Washington, D.C. : The Academy.
CODEN: PNASA6; ISSN: 0027-8424

=> d 8 ab

L1 ANSWER 8 OF 9 AGRICOLA

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.00	3.21

STN INTERNATIONAL LOGOFF AT 16:48:00 ON 30 DEC 2002

Connecting via Winsock to STN

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LOGINID:ssspta1649axm

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area

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 NEWS  4  Apr 09  ZDB will be removed from STN
 NEWS  5  Apr 19  US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS  6  Apr 22  Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS  7  Apr 22  BIOSIS Gene Names now available in TOXCENTER
 NEWS  8  Apr 22  Federal Research in Progress (FEDRIP) now available
 NEWS  9  Jun 03  New e-mail delivery for search results now available
 NEWS 10  Jun 10  MEDLINE Reload
 NEWS 11  Jun 10  PCTFULL has been reloaded
 NEWS 12  Jul 02  FOREGE no longer contains STANDARDS file segment
 NEWS 13  Jul 22  USAN to be reloaded July 28, 2002;
                  saved answer sets no longer valid
 NEWS 14  Jul 29  Enhanced polymer searching in REGISTRY
 NEWS 15  Jul 30  NETFIRST to be removed from STN
 NEWS 16  Aug 08  CANCERLIT reload
 NEWS 17  Aug 08  PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 18  Aug 08  NTIS has been reloaded and enhanced
 NEWS 19  Aug 19  Aquatic Toxicity Information Retrieval (AQUIRE)
                  now available on STN
 NEWS 20  Aug 19  IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21  Aug 19  The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 22  Aug 26  Sequence searching in REGISTRY enhanced
 NEWS 23  Sep 03  JAPIO has been reloaded and enhanced
 NEWS 24  Sep 16  Experimental properties added to the REGISTRY file
 NEWS 25  Sep 16  Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 26  Sep 16  CA Section Thesaurus available in CAPLUS and CA
 NEWS 27  Oct 01  CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 28  Oct 21  EVENTLINE has been reloaded
 NEWS 29  Oct 24  BEILSTEIN adds new search fields
 NEWS 30  Oct 24  Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 31  Oct 25  MEDLINE SDI run of October 8, 2002
 NEWS 32  Nov 18  DKILIT has been renamed APOLLIT
 NEWS 33  Nov 25  More calculated properties added to REGISTRY
 NEWS 34  Dec 02  TIBKAT will be removed from STN
 NEWS 35  Dec 04  CSA files on STN
 NEWS 36  Dec 17  PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 37  Dec 17  TOXCENTER enhanced with additional content
 NEWS 38  Dec 17  Adis Clinical Trials Insight now available on STN
 NEWS 39  Dec 30  ISMEC no longer available

 NEWS EXPRESS  October 14 CURRENT WINDOWS VERSION IS V6.01,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 09:38:09 ON 31 DEC 2002

=> file agricola medline
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'AGRICOLA' ENTERED AT 09:38:17 ON 31 DEC 2002

FILE 'MEDLINE' ENTERED AT 09:38:17 ON 31 DEC 2002

=> s vacuum and agrobacter?
L1          40 VACUUM AND AGROBACTER?

=> s l1 and review
L2           0 L1 AND REVIEW

=> dup rem l1
PROCESSING COMPLETED FOR L1
L3           29 DUP REM L1 (11 DUPLICATES REMOVED)

=> s l3 and monocot?
L4           1 L3 AND MONOCOT?

=> d ti

L4   ANSWER 1 OF 1  AGRICOLA
TI   Transient expression of uidA constructs in in vitro onion (Allium cepa L.)
     cultures following particle bombardment and Agrobacterium
     -mediated DNA delivery.


=> dup rem l4
PROCESSING COMPLETED FOR L4
L5            1 DUP REM L4 (0 DUPLICATES REMOVED)

=> del l4 y

=> d 11-15 ti
      1 ANSWERS ARE AVAILABLE.  SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):1

L5   ANSWER 1 OF 1  AGRICOLA
TI   Transient expression of uidA constructs in in vitro onion (Allium cepa L.)
     cultures following particle bombardment and Agrobacterium
     -mediated DNA delivery.


=> d l3 11-15 ti

L3   ANSWER 11 OF 29     MEDLINE
TI   [Sterilization of phacoemulsification and vitrectomy
     instruments.Contamination and evaluation].
     Hygiene von Phakoemulsifikations- und Vitrektomiegeraten. Kontamination
     und Bewertung.

L3   ANSWER 12 OF 29     MEDLINE
TI   Automated surgical equipment requires routine disinfection of
     vacuum control manifold to prevent postoperative endophthalmitis.

L3   ANSWER 13 OF 29  AGRICOLA
TI   High-frequency linkage of co-expressing T-DNA in transgenic Arabidopsis
     thaliana transformed by vacuum-infiltration of
     Agrobacterium tumefaciens.

L3   ANSWER 14 OF 29  AGRICOLA                              DUPLICATE 3
TI   Floral spray transformation can efficiently generate Arabidopsis
```

transgenic plants.

L3 ANSWER 15 OF 29 MEDLINE
TI Molecular dynamics simulations of cyclohenicosakis-[(1-->2)-beta-D-gluco-henicosapyranosyl], a cyclic (1-->2)-beta-D-glucan (a 'cyclosophoraose') of DP 21.

=> d 14 ab
1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):`
ANSWER NUMBERS NOT CORRECTLY SPECIFIED
Enter an answer number, Example: 10
several answer numbers, Example: 3,7,10
a range of answer numbers, Example: 5-10
or a combination of these. Example: 3,7,9-10,15
ENTER ANSWER NUMBER OR RANGE (1):1

L5 ANSWER 1 OF 1 AGRICOLA
AB Particle bombardment and **Agrobacterium**-mediated DNA delivery into immature embryos and microbulbs were used to investigate the expression of the uidA gene in in vitro onion cultures. Both methods were successful in delivering DNA and subsequent uidA expression was observed. Optimal transient beta-glucuronidase activity was observed in immature embryos that had been pre-cultured for three days and bombarded at a distance of 3 cm from the stopping plate, under 25 in Hg **vacuum**, using 900-1300 psi rupture discs. The CaMV35S-uidA gene construct gave five fold higher transient beta-glucuronidase activity than the uidA gene construct regulated by any of four other promoters initially chosen for high expression in **monocotyledonous** tissues.

=> d l3 14 ab

L3 ANSWER 14 OF 29 AGRICOLA DUPLICATE 3

=> d l3 14 so

L3 ANSWER 14 OF 29 AGRICOLA DUPLICATE 3
SO Transgenic research, Dec 2000. Vol. 9, No. 6. p. 471-476
Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.
CODEN: TRSEES; ISSN: 0962-8819

=> d 1l3 10 so
1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):1
'1L3' IS NOT A VALID FORMAT FOR FILE 'AGRICOLA'

The following are valid formats:

The default display format is BIB.

ABS ---- AB
ALL ---- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA, SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
BIB ---- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA, SL
CBIB --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA, SL
DALL --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA, SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN

```
IABS --- AB
IALL --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,
         SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
IBIB --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,
         SL
IND ---- CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
SAM ---- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
SCAN --- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
TRI ---- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
TRIAL -- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
HIT ---- All fields containing hit terms
KWIC --- All hit terms plus 20 words on either side
OCC ---- List of display fields containing hit terms

Hit terms will be highlighted in all displayable fields.

To display a particular field or fields,  enter the display field
codes.  For a list of display field codes, enter 'HELP DFIELDS'
at an arrow prompt (=>).  Examples of formats include: 'BIB';
'AB'; 'SO,ST'.  You may specify the format fields in any order,
and the information will be displayed in the same order as the
format specification.

The same formats (except for HIT, KWIC, and OCC) may be used
with the DISPLAY ACC command to display the record for a
specified Accession Number.

ENTER DISPLAY FORMAT (BIB):ti

L5   ANSWER 1 OF 1  AGRICOLA
TI   Transient expression of uidA constructs in in vitro onion (Allium cepa L.)
     cultures following particle bombardment and Agrobacterium
     -mediated DNA delivery.


=> d l3 11 sol
'SOL' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files.  Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):so

L3   ANSWER 11 OF 29     MEDLINE
SO   OPHTHALMOLOGE, (2000 Oct) 97 (10) 703-7.
     Journal code: 9206148. ISSN: 0941-293X.


=> d l3 16-20 ti

L3   ANSWER 16 OF 29  AGRICOLA
TI   Development of flooding-tolerant Arabidopsis thaliana by autoregulated
     cytokinin production.

L3   ANSWER 17 OF 29  AGRICOLA                          DUPLICATE 4
TI   Arabidopsis ecotypes and mutants that are recalcitrant to
     Agrobacterium root transformation are susceptible to germ-line
     transformation.

L3   ANSWER 18 OF 29  AGRICOLA                          DUPLICATE 5
TI   Transient expression of a tumor-specific single-chain fragment and a
     chimeric antibody in tobacco leaves.

L3   ANSWER 19 OF 29  AGRICOLA                          DUPLICATE 6
TI   Radiation-sensitive Arabidopsis mutants are proficient for T-DNA
```

transformation. [Erratum: Dec 1999, v. 262 (4/5), p. 909.]

L3 ANSWER 20 OF 29 AGRICOLA DUPLICATE 7
TI Arabidopsis ovule is the target for **Agrobacterium** in planta **vacuum** infiltration transformation.

=> d l3 21-29 ti

L3 ANSWER 21 OF 29 AGRICOLA DUPLICATE 8
TI A novel promoter from soybean that is active in a complex developmental pattern with and without its proximal 650 base pairs.

L3 ANSWER 22 OF 29 AGRICOLA DUPLICATE 9
TI Floral dip: a simplified method for **Agrobacterium**-mediated transformation of Arabidopsis thaliana.

L3 ANSWER 23 OF 29 MEDLINE
TI In planta **Agrobacterium**-mediated transformation of adult Arabidopsis thaliana plants by **vacuum** infiltration.

L3 ANSWER 24 OF 29 AGRICOLA
TI The effect of temperature on **Agrobacterium** tumefaciens-mediated gene transfer to plants.

L3 ANSWER 25 OF 29 AGRICOLA DUPLICATE 10
TI Frequent collinear long transfer of DNA inclusive of the whole binary vector during **Agrobacterium**-mediated transformation.

L3 ANSWER 26 OF 29 AGRICOLA
TI Effect of antibiotics and exposure to an acidified medium on the elimination of **Agrobacterium** tumefaciens from apple leaf explants and on shoot regeneration.

L3 ANSWER 27 OF 29 AGRICOLA
TI Leaf wounding increases efficiency of **Agrobacterium**-mediated transformation of apple.

L3 ANSWER 28 OF 29 AGRICOLA
TI Transient expression of uidA constructs in in vitro onion (Allium cepa L.) cultures following particle bombardment and **Agrobacterium** -mediated DNA delivery.

L3 ANSWER 29 OF 29 AGRICOLA DUPLICATE 11
TI Broad-spectrum virus resistance in transgenic plants expressing pokeweed antiviral protein.

=> d l3 1-5 ti

L3 ANSWER 1 OF 29 MEDLINE
TI Characterization of an ultra-violet inducible gene that encodes glutathione S-transferase in Arabidopsis thaliana.

L3 ANSWER 2 OF 29 MEDLINE
TI A carcinoembryonic antigen-specific diabody produced in tobacco.

L3 ANSWER 3 OF 29 AGRICOLA DUPLICATE 1
TI Factors influencing **Agrobacterium**-mediated transient expression of uidA in wheat inflorescence tissue.

L3 ANSWER 4 OF 29 MEDLINE
TI Germ-line transformation of Arabidopsis lasiocarpa.

L3 ANSWER 5 OF 29 AGRICOLA

TI Transformation of broccoli (Brassica oleracea var. italica) with isopentenyltransferase gene via **Agrobacterium** tumefaciens for post-harvest yellowing retardation.

=> d l3 5 ab

L3 ANSWER 5 OF 29 AGRICOLA

AB Transgenic plantlets with a retarding effect on post-harvest yellowing in broccoli have been generated via **Agrobacterium** tumefaciens-mediated transformation of cytokinin synthesizing ipt (isopentenyltransferase) gene. The ipt gene is constructed under the control of senescence-associated gene promoters from Arabidopsis in the forms of pSG529(+) and pSG766A, which were the gifts from Dr R.M. Amasino at University of Wisconsin, Madison. Evidence of transgene integration was confirmed by assays on neomycin phosphotransferase II (NPTII) activity of selection markers, PCR and Southern hybridization. Based on the chlorophyll retention rate (>50%) after 4 days of post-harvest storage at 25 degrees C, it was found that 31% of transformants exhibited the effect of retarding yellowing in detached leaves, with 16% having the effect on florets and 7.2% on both leaves and florets. RT-PCR revealed that ipt gene expression occurred early on the day of detachment. Factors such as **vacuum** aid infiltration, plasmid differences, explant types, seedling ages and kanamycin concentrations were also studied. Putative transformation frequencies tended to vary with plasmids and explant types. The advantage of **vacuum** aid infiltration depended on explant types. The optimal kanamycin concentration should be determined experimentally for each study to avoid the high escape rate of kanamycin selection. Flow cytometric analysis of explant nuclear DNA phases was found to be helpful for selecting suitable explants for transformation and minimizing the polyploid transformants. A reproducible transformation protocol without any pre-culture was established for explants of hypocotyl, cotyledon, and peduncle. Most of the ipt transformants with a retarding effect on yellowing had a chimeric nature but showed little or no serious morphological abnormality in comparison with their parental line. Through proper selection, transformation lines with the capability of retarding post-harvest yellowing in broccoli should be feasible.

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.22	4.43

STN INTERNATIONAL LOGOFF AT 09:43:23 ON 31 DEC 2002